



"We Keep the Lights On"

<u>Delaware Electric Cooperative, Inc.</u> Interconnection Application

(For Use with Systems Less than 100 kW DC)
REVISED April 2018

This Interconnection Application also serves as a binding contract between Delaware Electric Cooperative, Inc. (hereinafter referred to as DEC) and each signatory listed herein.

General Instructions and Expectations

 The preliminary portion of this application (Sections 1 through 12) and Addendum A must be submitted initially along with the application fee or a scanned copy of the check (see Section 6) to:

Delaware Electric Cooperative, Inc. ATTN: Interconnection Application PO Box 600 Greenwood, DE 19950

Email: interconnection@delaware.coop

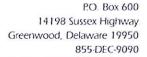
- 2. Should any Interconnection Application require multiple revisions by the Equipment Contractor and subsequent reviews, DEC reserves the right to charge a \$50 fee for each additional review.
- 3. Any Generating System requiring an upgrade to the DEC utility system will require the cooperative member to request that specific upgrade. Payment in full for all costs associated with the requested upgrade is required before construction of the Generating System is permitted to begin.
- After the preliminary portion of this application (Sections 1 through 12) has been approved by DEC and returned to the Equipment Contractor, construction of the Generating System may begin.
- 5. The final portion of this application (Sections 1 through 14) and a scanned copy of the Inspection Certificate (if applicable) must be submitted for final approval after construction of the Generating System is complete. Upon submittal, DEC will meet with the Equipment Contractor to perform a field inspection of the installation. Any installations deemed unacceptable to DEC's standards, or any installation that alters the original, approved design intent will be corrected by the Equipment Contractor at no cost to DEC before final approval is granted.
- When final approval is granted, DEC will install a net meter and return the approved Interconnection Application to the Equipment Contractor. Only at that time, will "Permission to Operate" be granted.
- 7. This application must be filled out in its entirety or it will be returned without review.



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Type of Application:	Initial X	or	Additio	n/Upgrade
Ownership:	Leased	or	Membe	er Owned X
Account(s):	Single	or	Aggrega	ated
1. DEC Member Informa Name: Leroy C. Collins Address: 19978 Lowes Town: Millsboro DEC Account Number: 1186	Road	S ²	ate: DE	_ _{Zip:} _19966
Sq Ft of Residence:		Electric H	leat? Yes	No
2. Equipment Contracto				
_{Name:} Paradise Energ		LC		
Address: 436 Snow Hill	Road			
_{Town:} Salisbury			State: MD	_{Zip:} 21804
Email: mmoyer@paradiseenergysolutions.com Phone: 4108452829				
3. <u>Electrical Contractor</u> Name: Paradise Energ Address: 3105 Lincoln I	information (If diffe y Solutions, LI	rent from above	1	
_{Town:} Paradise			State: PA	_{Zip:} 17562
Email. dmast@paradis	eenergysolution	ons.com	2hone. 8778	519269





4. Facility Information (If different from above)

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	action (if aiffere	ine from above,				
Address: 19978 Lo	wes Road					
Town: Millsboro			State:	DE	_Zip:	19966
Nearest DEC equipmen	t tag number: _					
5. <u>General Servic</u>	<u>e Requirement</u>	<u>s</u>				
What size service is rec	juired for this s	ystem?				
Same as existing	200A <u>X</u>	320A	400A	600A	_	CT Metering
If this is a new account	for the sole pu	rpose of this Ger	erating System,	what Volta	ge/Pł	nase will be required?
120/240V – 1Ø						
120/208V – 1Ø						
120/208V – 3Ø	(Consult DEC	before designing	3Ø systems)			
277/480V - 3Ø	(Consult DEC	hefore designing	3Ø systems)			

6. Application Fee

The application fee is \$50.00 per application for new or upgraded systems 25 kW DC or less. For systems over 25 kW DC the fee will be \$50.00 plus \$1.00 for each kW DC over the initial 25 kW DC. The application fee for systems where accounts will be aggregated is \$125 per application regardless of kW DC size. All Interconnection Applications submitted to DEC shall be accompanied with the appropriate fee made payable to DEC. The application fee is non-refundable. Applications returned for incomplete information will be subject to an additional \$50 application fee when resubmitted. No applications will be considered without the application fee. Returned checks will be assessed an additional fee based on DEC's Returned Check Policy.





DC System Design Capacity

AC System Design Capacity

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7. Equipment Information Is this equipment powered from a renewable source? Yes XType of energy source: Solar ____ Wind ____ Diesel Natural Gas Fuel Oil Other Will excess power be exported to DEC? Yes ____ No X (Typical) Maximum export: 13/9 kW DC/AC (Typical) Maximum export: _____ kW DC/AC 24 month average usage (kWh) 1168.8 ____ (monthly) Forecast monthly production (kWh) 1231 (Note: The forecast monthly production MUST be completed using 4.5 peak sunlight hours per day) Generator (or solar collector) Manufacturer, Model Name, and Number: Peimar325P (A copy of the generator nameplate and manufacturer's specification sheet may be substituted) Quantity of PV Modules: 40 Size of PV Modules: 325Watt Inverter Manufacturer, Model Name, and Number: Solar Edge (1)SE6000H/(1)SE3000H (A copy of the inverter nameplate and manufacturer's specification sheet may be substituted) Quantity of Inverters: 2 Please fill out the Initial Rating information if there is currently no Generating System on-site. If adding a Generating System to an existing system, fill out the Initial Rating information, the Added Rating information, and the Total Rating information. **Initial Rating:** DC System Design Capacity AC System Design Capacity Added Rating: DC System Design Capacity (kW) (kW) (kVA) AC System Design Capacity Total Rating:

(kVA)

(kW)

P.O. Box 600 14198 Sussex Highway Greenwood, Delaware 19950 855-DEC-9090



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In order to comply with Delaware State Law regarding output of an interconnection facility, DEC uses the following formula:

1.	Enter the 24 month average usage (kWh):	1168.8	(Per month)
2.	Multiply line 1 by 110%:	1285.7	(Maximum output permitted by Delaware law)
3.	Enter maximum inverter rating (kVA):	9.0	(From nameplate, at appropriate voltage)
4.	Multiply line 3 by 4.5 (hours):	40.5	(This is the maximum kWh possible per day)
5.	Multiply line 4 by 365 (days):	14782.50	(This is the maximum kWh possible per year)
6.	Divide line 5 by 12 (months):	1231.9	(This is the maximum kWh possible per month)

If line six (6) is equal to or less than line two (2), the system, as designed, will be approved by DEC.

For DEC members that have greater than 12 months of usage history and less than 24 months of usage history, the most recent 12 months of usage history shall be used to obtain the average monthly usage necessary for calculating the inverter size as described above.

For DEC members that have no usage or less than 12 months of usage history, please consult DEC before designing the Generating System.

8. Generator Disconnect Switch

A lockable disconnect device shall be installed within three (3) feet of the DEC meter and accessible at all times by DEC personnel. The cost of this device and the installation thereof shall not be the responsibility of DEC.

9. Equipment Certification

Equipment that utilizes inverter technology must be compliant with *IEEE 929* and *Underwriters Lab. UL1741*. Equipment that utilizes a rotating machine must be compliant with DEC's *Technical Requirements for Parallel Operation of Member Owner Generation* document. By signing below, the Equipment Contractor certifies that the installed generating equipment meets the appropriate preceding requirement(s) and can supply documentation that confirms compliance.

Company: Paradise Energy Solutions, LLC	
Name (print): J. Bradley Fox	Date: 2-28-19
Signature: 9 Pay Cy	

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10. Aggregate Meter Information (if applicable)

The following accounts shall be combined for the purpose of determining the twenty-four (24) months average usage (kWh) as required in the aforementioned formula regarding inverter sizing. Any surplus energy produced by the Generating System will be credited back to the accounts listed below. Each account must be active and ranked according to the order in which credit shall be applied. The specific method of remuneration will be determined by Delaware State Law, the DEC tariff, and member approval.

1.	Name: Leroy C Collins		Rate: 1E	
	Account No. 11862100	24 month average usage (kWh):	1168.8	(monthly)
2.	Name:		Rate:	
	Account No	24 month average usage (kWh):		(monthly)
	ž.			
3.	Name:		Rate:	
	Account No.	24 month average usage (kWh):		(monthly)
4.	Name:		Rate:	
	Account No	24 month average usage (kWh):		(monthly)
5.	Name:		Rate:	
	Account No	24 month average usage (kWh):	·	(monthly)

Any additional meters associated with the aggregated system must be supplied on a separate sheet in the same format.



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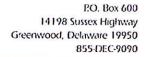
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11. Signatures

DEC Member		
I hereby certify that, to the best of my knowledge, all the in and correct.	formation provided in this	Interconnection Application is true
Name (print): Leroy C. Collins	Date:	February 16,2019
Name (print): Leroy C. Collins Signature: Lwy Callins		J
Equipment Contractor	*	
I hereby certify that the information regarding the Generat designed in accordance with all applicable standards. Company: Paradise Energy Solutions, LLC		curate, and shall be installed as
Name (print): J. Bradley Fox Signature: 9 Many 19	 Date:	
Signature: grangen		
Electrical Contractor (if different from above)		
I hereby certify that all wiring and installation of associated applicable NEC codes. Peredical Energy Solutions 11.0		eted in compliance with all
Company: Paradise Energy Solutions, LLC Name (print): Derek Mast Signature Califfur		
Signature Cal flor		
12. PRELIMINARY Approval to Proceed with Interconn	ection	
Returned without review due to insufficient information:		
Delaware Electric Cooperative: Has Approved X Ha	s Not Approved this	preliminary application.
Reason for not approving:		
Name: LPGIII	Date: <u>3/5/</u>	2019
Dall (_voon oo III th on Fad Geenlee II, on Defaute a Bectric Coo	p.ou,	1





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13. <u>Installation Details</u>				
	State Licensed Electrician X			
Installing Electrician: Derek Mast				
Company: Paradise Energy Solutions, LLC	License No.: T1-0006327			
Mailing Address: 3105 Lincoln Highway E				
Town: Paradise State: PA	_{zip:} 17562			
Email: dmast@paradiseenergysolutions.com Phone:				
Supply certification that the generating system has been installed and installed and installed code of the municipality of				
Signed (Inspector): (In lieu of signature of Inspector, a copy of the final in:	Date: spection certificate may be attached)			
14. FINAL Approval or Non-Approval				
Delaware Electric Cooperative: Has Approved X Has Not Approved this interconnection application.				
Name: LPGIII Date: 7/24/19				
Signature: L. Paul Greenlee III Depth Superby L. Fad Greenke 18 - Depth Copy on Copy on Copy of Copy on Copy of Copy on Copy of Copy o				
Reason for not approving this Interconnection Application:				
"Permission to Operate" has been granted as of: 7/24/19				